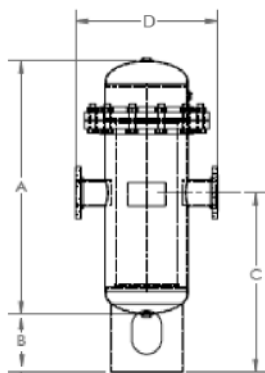


# STANDARD & HIGH VELOCITY AIR & DIRT SEPARATOR

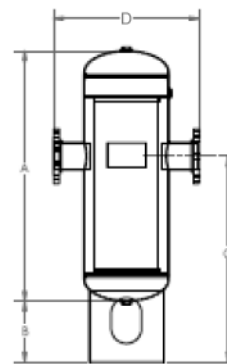
The American Wheatley HVAD High Velocity and STAD Standard Velocity Coalescing Air & Dirt Separator is intended for use on commercial HVAC, institutional, and industrial applications to remove entrained air and particulate from system water.

The Wheatley Air & Dirt separator accomplishes this through the use of a Stainless steel High Performance Saddle type coalescing media assembly internal to the separator. The use of High Performance saddle type coalescing media technology has been in place many years as a coalescing media in both liquid and gas applications. The American Wheatley Air and Dirt separators utilize a High Performance coalescing media that has been finely tuned, which allows for greater capacity and lower pressure drops. The geometric design creates greater capacity with open areas and varying protrusions, this geometric design provides for an increased flow at lower pressure drops. The open design maintains an even distribution and resists channeling towards the vessel wall. The Wheatley Air & Dirt separator is capable of removing particles as small as 35 microns.

The stainless steel High Performance coalescing media helps separate and capture particulate along with both free and entrained air from the system as the water passes and over and through them. The air then releases upward and through a high capacity air release valve, while the particulate falls into a collection area that can be blown down either manually or automatically. The American Wheatley Air & Dirt Separator is available in sizes 2" through 16", with or without a removable cover for access to the coalescing media, and is standard with a connection for a skimmer valve to dispel floating debris.



**RC- Removable Cover**



**NR- Non Removable Cover**

JOB NAME _____
LOCATION _____
_____
CONTRACTOR _____
CONTRACTOR P.O. NO. _____

ITEMS	QUANTITY
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

### Standard Velocity with Non Removable Cover

PIPE SIZE	MODEL NO.	DIA. (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	SURFACE AREA (SQ. FT.)	WEIGHT (LBS)	MAX FLOW (GPM)
2	STAD-2-NR	14	24 13/16	6	16	21-3/4	64	85	50
2.5	STAD-2.5-NR	14	24 13/16	6	15	21-3/8	39	90	75
3	STAD-3-NR	14	28 -7/16	6	15	21-1/4	51	100	115
4	STAD-4-NR	14	28-7/16	6	15	24	51	110	190
5	STAD-5-NR	20	39-13/16	6-3/4	18-3/4	30	106	190	300
6	STAD-6-NR	20	39-13/16	6-3/4	18-3/4	29-5/8	106	205	440
8	STAD-8-NR	24	47-1/4	7-1/16	21-1/16	34-5/8	187	430	750
10	STAD-10-NR	30	59-7/16	7-13/16	25-13/16	41-1/4	300	600	1200
12	STAD-12-NR	30	59-7/16	7-13/16	25-13/16	42-3/4	300	650	1700
14	STAD-14-NR	36	77-13/16	8-1/2	34-1/2	49-5/8	600	870	2040
16	STAD-16-NR	36	77-13/16	8-1/2	34-1/2	51	600	870	2599

### Standard Velocity with Removable Cover

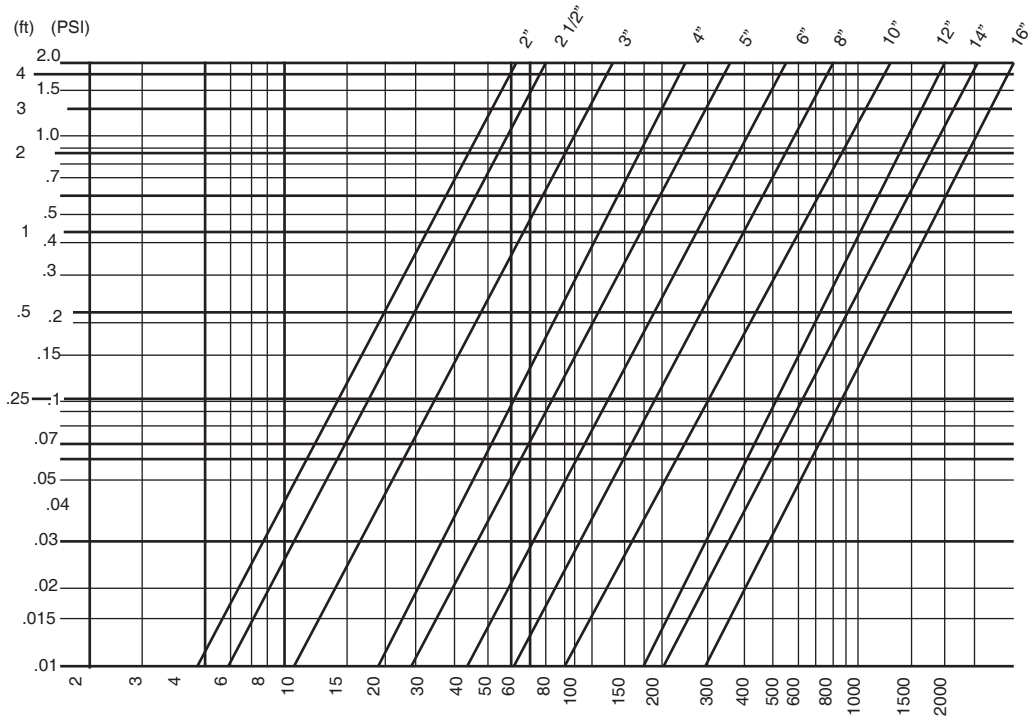
PIPE SIZE	MODEL NO.	DIA. (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	SURFACE AREA (SQ. FT.)	WEIGHT (LBS)	MAX FLOW (GPM)
2	STAD-2-RC	14	27-1/8	6	16	21-3/4	38	265	50
2.5	STAD-2.5-RC	14	27-1/8	6	15	21-3/8	38	270	75
3	STAD-3-RC	14	30-11/16	6	15	21-1/4	51	280	115
4	STAD-4-RC	14	30-11/16	6	15	24	51	290	190
5	STAD-5-RC	20	44-1/16	6-3/4	18-3/4	30	106	520	300
6	STAD-6-RC	20	44-1/16	6-3/4	18-3/4	29-5/8	106	535	440
8	STAD-8-RC	24	52-1/2	7-1/16	21-1/16	34-5/8	187	870	750
10	STAD-10-RC	30	64-9/16	7-13/16	25-13/16	41-1/4	300	1000	1200
12	STAD-12-RC	30	64-9/16	7-13/16	25-13/16	42-3/4	300	1050	1700
14	STAD-14-RC	36	82-15/16	8-1/2	34-1/2	49-5/8	600	1523	2040
16	STAD-16-RC	36	82-15/16	8-1/2	34-1/2	51	600	1553	2599

### High Velocity with Non Removable Cover

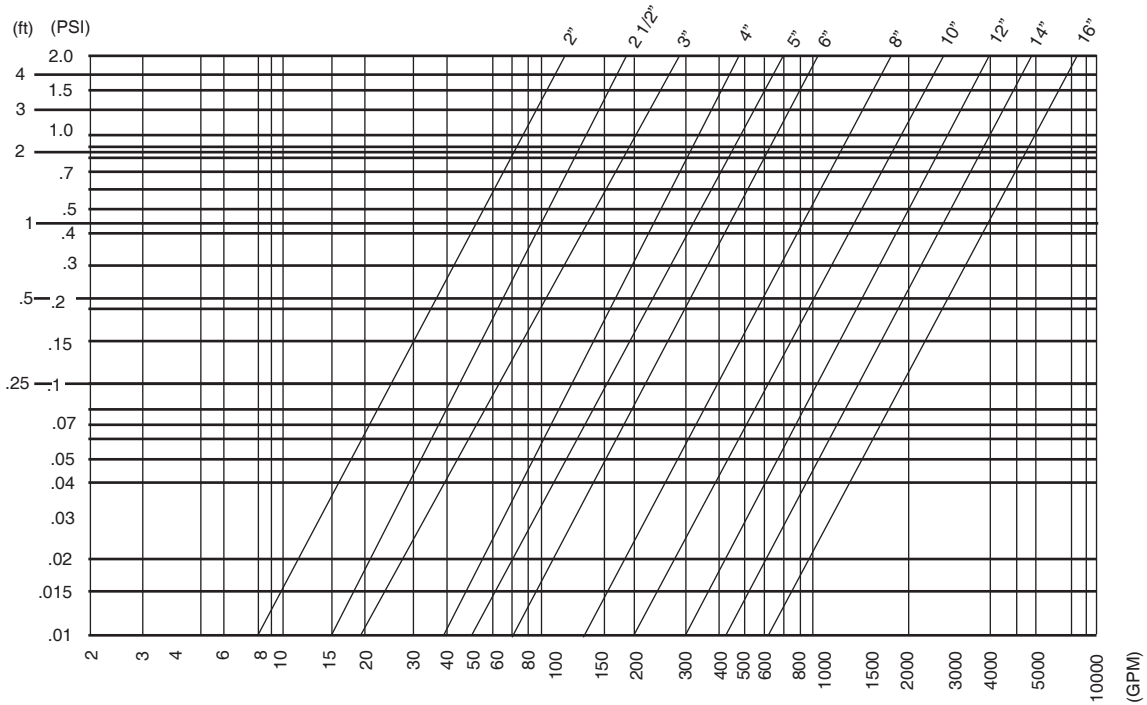
PIPE SIZE	MODEL NO.	DIA. (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	SURFACE AREA (SQ. FT.)	WEIGHT (LBS)	MAX FLOW (GPM)
2	HVAD-2-NR	14	31-11/16	10-15/16	27-15/16	21-3/4	65.1	99	108
2.5	HVAD-2.5-NR	14	31-11/16	10-15/16	27-15/16	21-3/8	65.1	103	163
3	HVAD-3-NR	14	39-1/8	10-15/16	31-3/4	21-1/4	80.6	119	249
4	HVAD-4-NR	14	39-1/8	10-15/16	31-3/4	24	80.6	128	432
5	HVAD-5-NR	20	56-1/2	11-15/16	41-11/16	29-5/8	162.2	253	685
6	HVAD-6-NR	20	56-1/2	11-15/16	41-11/16	30	162.2	270	988
8	HVAD-8-NR	24	68-1/16	12-1/8	48-7/8	34-5/8	287	519	1714
10	HVAD-10-NR	30	84-13/16	12-3/4	58-3/16	41-1/4	455	736	2698
12	HVAD-12-NR	30	84-13/16	12-3/4	58-3/16	42-3/4	455	783	3831
14	HVAD-14-NR	36	101-15/16	12-5/8	66-7/8	49-5/8	798.1	1101	4623
16	HVAD-16-NR	36	101-15/16	12-5/8	66-7/8	51	798.1	1124	6039

### High Velocity with Removable Cover

PIPE SIZE	MODEL NO.	DIA. (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	SURFACE AREA (SQ. FT.)	WEIGHT (LBS)	MAX FLOW (GPM)
2	HVAD-2-RC	14	34-1/16	10-15/16	27-7/8	21-3/4	64.8	281	108
2.5	HVAD-2.5-RC	14	34-1/16	10-15/16	27-7/8	21-3/8	64.8	283	163
3	HVAD-3-RC	14	41-9/16	10-15/16	24-3/4	21-1/4	78.7	300	249
4	HVAD-4-RC	14	41-9/16	10-15/16	24-3/4	24	78.7	308	432
5	HVAD-5-RC	20	60-13/16	11-15/16	42-11/16	29-5/8	159	587	685
6	HVAD-6-RC	20	60-13/16	11-15/16	42-11/16	30	159	598	989
8	HVAD-8-RC	24	73-1/4	12-1/8	48-7/8	34-5/8	282.2	958	1714
10	HVAD-10-RC	30	90-1/8	12-3/4	58-3/16	41-1/4	448.9	1129	2698
12	HVAD-12-RC	30	90-1/8	12-3/4	58-3/16	42-3/4	448.9	1179	3831
14	HVAD-14-RC	36	108-1/2	12-5/8	66-7/8	49-5/8	787.6	1658	4623
16	HVAD-16-RC	36	108-1/2	12-5/8	66-7/8	51	787.6	1689	6039



**STAD PRESSURE DROP**



**HVAD PRESSURE DROP**